

REGIONAL SANITARY LANDFILL ZRENJANIN

CITY OF ZRENJANIN
DEPARTMENT OF ENVIRONMENT

BELGRADE 2012.

DEJAN JOVANOV/HEAD OF DEPARTMENT ANA VUJINOV/HEAD OF PROJECT MANAGEMENT UNIT

WHAT HAS BEEN S DONE **6.** Adoption of Municipal Assemblies **5.** Adoption of the City Council 1. Development of a Regional 2. Development of a Waste Management Plan Strategic Impact Assessment 3. Public debate on o RWMP 4. Provincial approval and SIA 8. Revision of the General Project of the 7. General Project of the Regional 9. Plan of detailed Regional Landfill and Pre-feasibility Study Landfill with Pre-feasibility Study regulation

WHAT'S TO BE DONE **MODERN LANDFILL**

Dynamics of the activities

No.	Activity	Date of completion
1.	Adoption of the Regional Waste Management Plan	01/07/11
2.	Preparation of the General Project of the Regional Landfill	01/11/11
3.	Preparation of Pre-feasibility Study	23/12/11
4	Revision of the General Project of the Regional Landfill and Pre- feasibility Study	05/04/12
5.	Adoption of a Plan of detailed regulation	
6.	Decision of public interest	
7.	Decisions on expropriation	
8.	Obtaining building permits	
9.	Preparation of a Preliminary design of the Regional Landfill	
10.	Preparation of a Feasibility Study	
11.	Revision of Preliminary design of the Regional Landfill and Feasibility Study	
12.	Study on assessing the environmental impact	
13.	Obtaining approval on the Study on assessing the environmental impact	STATE OF THE PARTY AND ADDRESS.
14.	Preparation of the Main Project of Regional Landfill	
15.	Revision of the Main Project of Regional Landfill	
16.	Obtaining of building permit	
17	Cost-Benefit analysis preparation	
18.	The Landfill – a test run	Carlo Adoption Color Color
19.	Obtaining of Integrated permit	CHUNGS YES GOLD
20.	Obtaining a use permit	
21.	The beginning of Regional Landfill work	AND DESCRIPTION OF THE PARTY OF

WASTE FACTS AND FIGURES

- Region include City of Zrenjanin and Municipalities of Sečanj, Titel, Kovačica and Žitište (213.000 citizens)
- According to GP and PFS, total quantity of communal waste is **71.763 t/year**, 0,96 kg/ctz/d, 190 t/d
- Composition: 43 % biodegradable waste (high methane production), 8% paper, 6% glass, 2% metal, 4% PET, etc.
- Quantity and waste composition determine Waste Management
 Treatment:
 - waste disposal (on region sanitary landfill)
 - cogeneration (on cogeneration plant)
 - recycling (on recycling center)

WASTE DISPOSAL

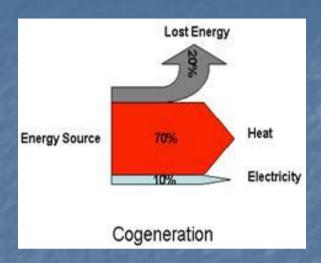


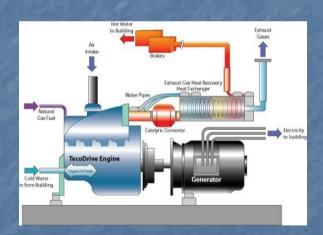




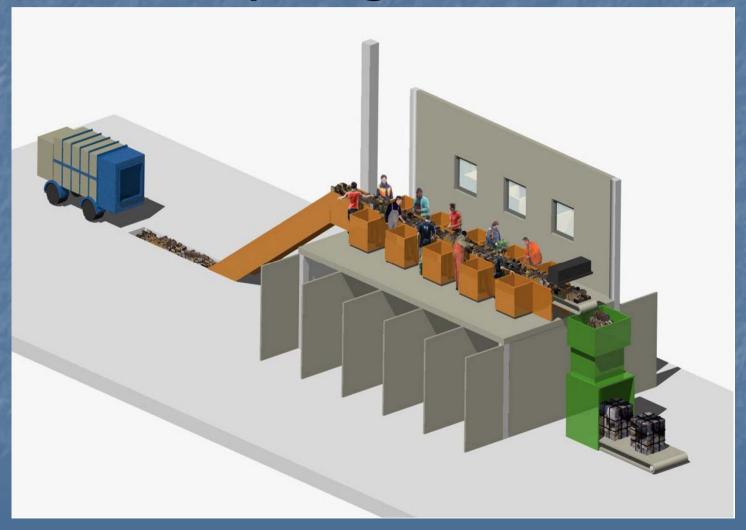
COGENERATION

- Large Quantity of biodegradable waste – large production of methane
- App. 1-1,5 MWee and 2 MWhe during 20 years of degradation





Recycling center



FINANCIAL ASPECTS

- Total costs: 21 mil. €
- Phase building: 5 phases
 - 1. phase: 10 mil. €
 - Recycling center
 - Waste water treatment (aerated lagoons)
 - Cogeneration plant
 - Regional landfill basic infrastructure
 - 1. landfill site (of five) on 5,32 ha for 6 years of waste disposal
- Estimated Time of Disposal 32 year



THANK YOU FOR THE ATTENTION

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